

# Notice of Allowability

Application No.

10/697,300

Examiner

David Schindler

Applicant(s)

TSE ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/31/2003.
2. ☒ The allowed claim(s) is/are 1-19, 21 and 22.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 3/25/2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

**DETAILED ACTION**

**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

A. In Claim 1,

a. Line 4, change "establishing the position and orientation" to -- establishing position and orientation --.

b. Lines 13-14, change "to account for the instability" to -- to account for instability --.

B. In Claim 13,

a. Line 2, change "wherein said step of track-following includes" to -- wherein the track-following procedure includes --.

b. Line 4, change "in the radial direction" to -- in a radial direction --.

C. In Claim 14,

a. After the last line (Line 12), add -- said processor means compares measurements of adjacent sets of tracks of said hard disk to calibrate said data signals and adjust said data signals for skew angle deviation. --

D. Delete Claim 20.

Authorization for this examiner's amendment was given in a telephone interview with Morton Rosenberg on September 23, 2005 and September 26, 2005.

***Allowable Subject Matter***

2. The following is an examiner's statement of reasons for allowance:

As to Claims 1-13,

The primary reason for the allowance of claim 1 is the inclusion of (e) establishing numerical alignment of the data to account for instability of the triggering signal and the spindle of the spin-stand and (f) returning to step (e) prior to completion of reading the data from the hard disk. It is these features found in the claim, as they are claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes this claim allowable over the prior art.

Claims 2-13 are allowed due to their dependency on claim 1.

As to Claims 14-19, 21, and 22,

The primary reason for the allowance of claim 14 is the inclusion of the processor means compares measurements of adjacent sets of tracks of the hard disk to calibrate the data signals and adjust the data signals for skew angle deviation. It is these features found in the claim, as they are claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes this claim allowable over the prior art.

Claims 15-19, 21, and 22 are allowed due to their dependency on claim 14.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

1) U.S. Pat. No. 6,400,519 to Mukoyama which discloses a head testing device, a magnetic disk, a magnetic head, an amplifier, an oscilloscope, and a PC.

2) U.S. Pat Pub. No. 2003/0053235 to Kikugawa et al. which discloses a spin-stand, a magnetic head, double-layer perpendicular magnetic recording media, a spindle motor, a digital storage oscilloscope, a head amplifier, and a computer.

3) U.S. Pat. No. 6,061,201 to Woods which discloses a method of measuring the read-to-write offset of a track in a disc drive system including a spindle, a spindle motor, a disc, and a transducer.

None of the above references includes, in any combination, the feature of e) establishing numerical alignment of the data to account for instability of the triggering signal and the spindle of the spin-stand and (f) returning to step (e) prior to completion


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of reading the data from the hard disk. Furthermore, the above references do not include, in any combination, the feature of the processor means compares measurements of adjacent sets of tracks of the hard disk to calibrate the data signals and adjust the data signals for skew angle deviation

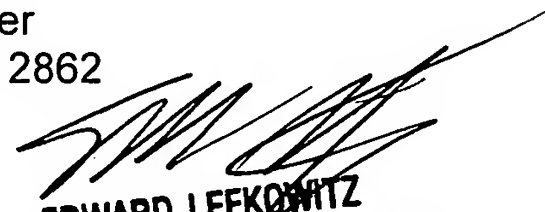
Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Schindler whose telephone number is (571) 272-2112. The examiner can normally be reached on M-F (8:00 - 5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on (571) 272-2180. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
David Schindler  
Examiner  
Art Unit 2862

DS

  
EDWARD LEFKOWITZ  
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